

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6503456

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THOMAS C. BOONE	03/04/2010
DAVID W. BRANKOW	03/03/2010
COLIN V. GEGG JR.	03/03/2010
SHAW-FEN SYLVIA HU	03/03/2010
HSIENG SEN LU	03/03/2010
LICHENG SHI	03/03/2010
CEN XU	03/03/2010
CHADWICK T. KING	03/04/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AMGEN INC.
<b>Street Address:</b>	ONE AMGEN CENTER DRIVE
<b>City:</b>	THOUSAND OAKS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91320-1799
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17111442
Application Number:	17111453
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	8054471000
<b>Email:</b>	ttorraca@amgen.com
<b>Correspondent Name:</b>	AMGEN INC.
<b>Address Line 1:</b>	ONE AMGEN CENTER DRIVE
<b>Address Line 2:</b>	LAW DEPT - PATENT OPERATIONS, MS 28-5-A
<b>Address Line 4:</b>	THOUSAND OAKS, CALIFORNIA 91320-1799
<b>ATTORNEY DOCKET NUMBER:</b>	A-1472-US-DIV2/DIV3
<b>NAME OF SUBMITTER:</b>	TONYA TORRACA

PATENT

<b>SIGNATURE:</b>	/Tonya Torraca/
<b>DATE SIGNED:</b>	01/19/2021
<b>Total Attachments: 18</b> source=A-1472-US-NP_Executed_Assignment_#page1.tif source=A-1472-US-NP_Executed_Assignment_#page2.tif source=A-1472-US-NP_Executed_Assignment_#page3.tif source=A-1472-US-NP_Executed_Assignment_#page4.tif source=A-1472-US-NP_Executed_Assignment_#page5.tif source=A-1472-US-NP_Executed_Assignment_#page6.tif source=A-1472-US-NP_Executed_Assignment_#page7.tif source=A-1472-US-NP_Executed_Assignment_#page8.tif source=A-1472-US-NP_Executed_Assignment_#page9.tif source=A-1472-US-NP_Executed_Assignment_#page10.tif source=A-1472-US-NP_Executed_Assignment_#page11.tif source=A-1472-US-NP_Executed_Assignment_#page12.tif source=A-1472-US-NP_Executed_Assignment_#page13.tif source=A-1472-US-NP_Executed_Assignment_#page14.tif source=A-1472-US-NP_Executed_Assignment_#page15.tif source=A-1472-US-NP_Executed_Assignment_#page16.tif source=A-1472-US-NP_Executed_Assignment_#page17.tif source=A-1472-US-NP_Executed_Assignment_#page18.tif	

## WORLDWIDE ASSIGNMENT

Whereas, we, Thomas C. Boone, residing at 2715 Kelly Knoll Lane, Newbury Park, CA 91320  
 David W. Brankow, residing at 18800 Tribune Street, Northridge, CA 91326  
 Colin V. Gagg Jr., residing at 736 Kenmore Circle, Newbury Park, CA 91320  
 Shaw-Fen Sylvia Hu, residing at 986 Lynnmore Drive, Thousand Oaks, CA 91360  
 Chadwick T. King, residing at 1325 Moody Avenue, North Vancouver, BC V7L3T5, Canada  
 Hsieng Sen Lu, residing at 2758 Rainfield Avenue, Westlake Village, CA 91362  
 Licheng Shi, residing at 5243 Via Capote, Newbury Park, CA 91320  
 Cen Xu, residing at 5221 Via Jacinto, Newbury Park, CA 91320

have made an invention which is the subject of an application for Letters Patent of the United States ("Application") entitled

## HUMAN CGRP RECEPTOR BINDING PROTEINS

which is found in:

- (a) the US Patent Application executed on even date herewith; [which claims the benefit of U.S. Provisional Application No. \_\_\_\_\_ filed \_\_\_\_\_]
- (b) the US Patent Application executed on \_\_\_\_\_ [which claims the benefit of U.S. Provisional Application No. \_\_\_\_\_ filed \_\_\_\_\_]
- (c) US Application Serial No.: 12/642,711 filed on December 18, 2009 which claims the benefit of U.S. Provisional Application Nos. 61/203,569 filed December 23, 2008 and 61/264,622, filed November 25, 2009.
- (d) US Patent No.: \_\_\_\_\_

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California, 91320-1799, wishes to acquire the entire interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over unto AMGEN INC., its successors and assigns (collectively "AMGEN") our entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, and/or continuation-in-part applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by AMGEN for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

Further, we hereby sell, assign, transfer, and set over unto AMGEN our entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by us or at our direction or deposited on our behalf by AMGEN, its affiliates, employees or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, our unreserved and irrevocable consent and authorization to AMGEN to refer to the deposited microorganisms(s) or other biological materials(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

We authorize and request the Commissioner of Patents and Trademarks of the United States to issue any such Letters Patent which may be granted on the Application to AMGEN as assignee of the entire right, title and interest therein and thereto.

For ourselves and for our legal representatives, we covenant and agree with AMGEN that we have not granted to any others any license to make, use or sell any of such inventions, that our right, title and interest in such inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

For ourselves and for our heirs, successors and legal representatives, we further covenant and agree with AMGEN that upon request we and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to us or them relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominees, in the United States and in all other countries where AMGEN may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the 4 day of March, 2010

Thomas C. Boone  
\_\_\_\_\_  
(Name of Inventor)

*Thomas C. Boone*  
\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of Ventura } ss:

4 March, 2010

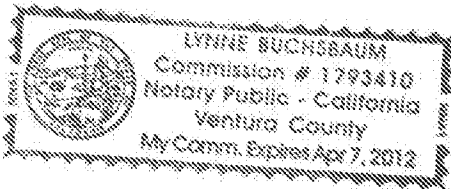
Before me, a Notary Public for Ventura County, State of California, personally appeared

Thomas C. Boone  
\_\_\_\_\_

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Lynne Buchsbaum*  
\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012  
\_\_\_\_\_

In Witness Whereof I have executed this assignment on the 3 day of March, 20 10

David W. Brankow  
(Name of Inventor)

*David W. Brankow*  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

County of Ventura

} ss:

March 3, 2010

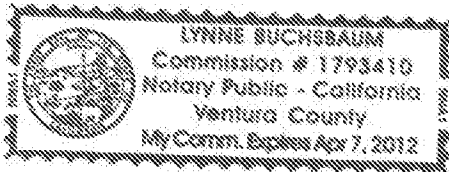
Before me, a Notary Public for Ventura County, State of California, personally appeared

David W. Brankow

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Lynne Buchsbaum*  
Notary Public

My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the 3 day of March, 2010

Colin V. Gegg Jr.  
(Name of Inventor)

*Colin V. Gegg Jr.*  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of Ventura } ss:

March 3, 2010

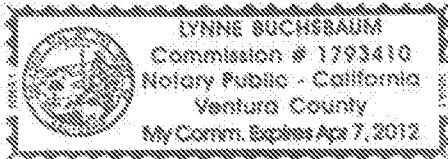
Before me, a Notary Public for Ventura County, State of California, personally appeared

Colin V. Gegg, Jr.

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Lynne Buchsbaum*  
Notary Public  
My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the 3<sup>rd</sup> day of March, 20 10

Shaw-Fen Sylvia Hu  
(Name of Inventor)

*Shaw-Fen Sylvia Hu*  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

County of Ventura

} ss:

March 3, 2010

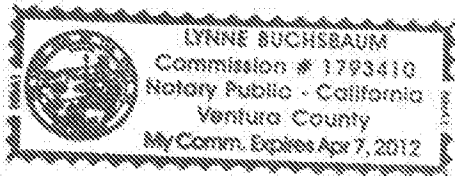
Before me, a Notary Public for Ventura County, State of California, personally appeared

Shaw-Fen Sylvia Hu

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Lynne Buchsbaum*  
Notary Public

My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

\_\_\_\_\_  
Chadwick T. King  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

Witness Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Witness Name: \_\_\_\_\_  
(Print Name)

Signed at: \_\_\_\_\_  
(City, State and Country)

Witness Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Witness Name: \_\_\_\_\_  
(Print Name)

Signed at: \_\_\_\_\_  
(City, State and Country)



In Witness Whereof I have executed this assignment on the 3<sup>rd</sup> day of March, 2010

Hsieng Sen Lu  
(Name of Inventor)

*Hsieng Sen Lu*  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of Ventura } ss:

March 3, 2010

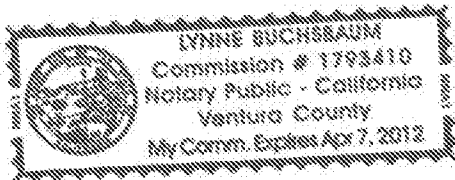
Before me, a Notary Public for Ventura County, State of California, personally appeared

Hsieng Sen Lu

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that s/he executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



*Lynne Buchsbaum*  
Notary Public  
My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the 3 day of March, 2010

Licheng Shi  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of Ventura } ss:

March 3, 2010

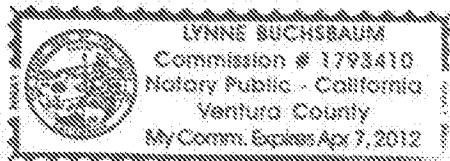
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Licheng Shi

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[Signature]  
Notary Public  
My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the 3 day of March, 20 10

Gen Xu  
(Name of Inventor)

[Signature]  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }  
County of Ventura } ss:

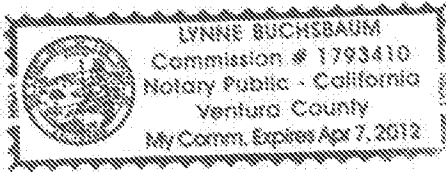
March 3, 2010

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Gen Xu

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[Signature]  
Notary Public  
My commission expires  
April 7, 2012

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 Hsiang Sen Lu, residing at 2758 Rainfield Avenue, Westlake Village, CA 91362  
 Licheng Shi, residing at 5243 Via Capote, Newbury Park, CA 91320  
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- (a) the US Patent Application executed on even date herewith; [which claims the benefit of U.S. Provisional Application No. \_\_\_\_\_ filed \_\_\_\_\_]
- (b) the US Patent Application executed on \_\_\_\_\_ [which claims the benefit of U.S. Provisional Application No. \_\_\_\_\_ filed \_\_\_\_\_]
- (c) US Application Serial No.: 12/642,711 filed on December 18, 2009 which claims the benefit of U.S. Provisional Application Nos. 61/203,589 filed December 23, 2008 and 61/264,622, filed November 25, 2009.
- (d) US Patent No.: \_\_\_\_\_

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California, 91320-1759, wishes to acquire the entire interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over unto AMGEN INC., its successors and assigns (collectively "AMGEN") our entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, and/or continuation-in-part applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by AMGEN for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

Further, we hereby sell, assign, transfer, and set over unto AMGEN our entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by us or at our direction or deposited on our behalf by AMGEN, its affiliates, employees or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, our unreserved and irrevocable consent and authorization to AMGEN to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

We authorize and request the Commissioner of Patents and Trademarks of the United States to issue any such Letters Patent which may be granted on the Application to AMGEN as assignee of the entire right, title and interest therein and thereto.

For ourselves and for our legal representatives, we covenant and agree with AMGEN that we have not granted to any others any license to make, use or sell any of such inventions, that our right, title and interest in such inventions has not been encumbered, that we have good right and title to sell and assign the same, and that we will not execute any instrument in conflict herewith.

For ourselves and for our heirs, successors and legal representatives, we further covenant and agree with AMGEN that upon request we and they will: (i) execute continuing, divisional, or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to AMGEN any facts known to us or them relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for AMGEN, may be necessary or desirable to secure the grant of Letters Patent to AMGEN or its nominee, in the United States and in all other countries where AMGEN may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for AMGEN and to vest and confirm in AMGEN or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid but at the expense of AMGEN.

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

\_\_\_\_\_  
Thomas C. Boone  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

County of Ventura

} ss:

\_\_\_\_\_  
March, 2010

Before me, a Notary Public for Ventura County, State of California, personally appeared

\_\_\_\_\_  
Thomas C. Boone

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012  
\_\_\_\_\_

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

David W. Brankow  
\_\_\_\_\_  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California  
County of Ventura

} ss:

\_\_\_\_\_ March, 2010

Before me, a Notary Public for Ventura County, State of California, personally appeared

\_\_\_\_\_  
David W. Brankow

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

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\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

Colin V. Gegg Jr.  
\_\_\_\_\_  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

}

ss:

County of Ventura

\_\_\_\_\_  
March, 2010

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\_\_\_\_\_  
Colin V. Gegg, Jr.

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Notary Public  
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April 7, 2012  
\_\_\_\_\_

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

Shaw-Fen Sylvia Hu  
\_\_\_\_\_  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

}

ss:

County of Ventura

\_\_\_\_\_  
March, 2010

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\_\_\_\_\_  
Shaw-Fen Sylvia Hu

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WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012  
\_\_\_\_\_



In Witness Whereof I have executed this assignment on the 4<sup>th</sup> day of March, 20 10

\_\_\_\_\_  
Chadwick T. King  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

Witness Signature: \_\_\_\_\_

Date: MARCH 4 2010

Witness Name: JUSTIN NIAN  
(Print Name)

Signed at: BURNABY, BC Canada  
(City, State and Country)

Notary Public  
12000 North Rd. Burnaby BC V8L 7T8  
603-444-4506

Witness Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Witness Name: \_\_\_\_\_  
(Print Name)

Signed at: \_\_\_\_\_  
(City, State and Country)

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

\_\_\_\_\_  
Hsieng Sen Lu  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

}

ss:

County of Ventura

\_\_\_\_\_  
March , 2010

Before me, a Notary Public for Ventura County, State of California, personally appeared

\_\_\_\_\_  
Hsieng Sen Lu

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\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012  
\_\_\_\_\_

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

\_\_\_\_\_  
Licheng Shi  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California



ss:

County of Ventura

\_\_\_\_\_  
March, 2010

Before me, a Notary Public for Ventura County, State of California, personally appeared

\_\_\_\_\_  
Licheng Shi

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\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012

In Witness Whereof I have executed this assignment on the \_\_\_\_\_ day of \_\_\_\_\_ March, 20 10

\_\_\_\_\_  
Cen Xu  
(Name of Inventor)

\_\_\_\_\_  
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California

County of Ventura

} ss:

\_\_\_\_\_  
March, 2010

Before me, a Notary Public for Ventura County, State of California, personally appeared

\_\_\_\_\_  
Cen Xu

who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that s/he executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public  
My commission expires  
April 7, 2012